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Mr. Lorenz's discussion and of most discussions of the concentration of wealth, that they do not deal with what they set out to, that is, the concentration of wealth. Of course, the answer to this criticism is that the statistician and economist must use what figures are available, and these are in general income statistics. But the investigator certainly should not give his results a character which is not theirs. He should answer the question with which he sets out to the best of his ability, or else change the statement of the question to conform to what answer he can and does get. And, if he seeks to measure the distribution of possibilities of welfare by way of income, he should at least show some consciousness of the fact that his incomes need weighting before comparison.

G. P. WATKINS.

CORNELL UNIVERSITY.

CHILDREN OF DECEDENTS IN MICHIGAN.

In the absence of satisfactory birth statistics in this country and the great interest in recent years in the problem of "race suicide," any data derived from registration returns and having a direct bearing upon this subject may be esteemed of interest.

An entirely new class of facts, at least for this country, is given in the accompanying table, which is based upon the 32,453 deaths registered in Michigan for the year 1900.

The form of certificate of death used in Michigan, which is otherwise the "standard" blank recommended by the United States Census Bureau, is unique in containing, in addition to the usual statement of "single, married, widowed, or divorced," the following question:—

AGE AT MARRIAGE, If married, age at (first) marriage years Number of Chil-Dren Parent of . . . children, of whom . . . are living

This question is not always answered, and may not be always answered correctly in all cases. It is probable that the trustworthiness of the replies is fairly close to that of other items, and the number of returns containing answers to this question is probably amply sufficient to establish the general relations of fertility of marriage for the larger groups of decedents.

Excluding males under eighteen years of age and females under sixteen years of age, the legal ages for marriage in Michigan, in cases where the question was not answered, a very few "unknown ages," and also all colored decedents, also few in number, we find that the

DECEDENTS AND CHILDREN BORN AND LIVING AT TIME OF PARENTS' DEATH IN MICHIGAN, 1900.

				Males.						Females.	es.		
Nativity, Parent Nativity and	Age	Dece	Decedents.		Chil	Children		Dece	Decedents,		Children.	ren.	
Nationality of Decedents.		Num- ber.	Per cent. of total compiled.	Born.	Aver- age.	Living.	Aver- age.	Num- ber.	Per cent. of total compiled.	Born.	Aver- age.	Living.	Aver- age
	All ages	7,763	72.6	37,657	4.85	26,019	3.35	8,186	82.0	38,477	4.70	25,494	3.11
	15-19	က	9.0	-	0.33	Г	0.33	62	13.1	47	0.76	33	0.63
	20-29	291	25.1	397	1.36	323	1.11	816	60.7	1,493	1.83	1,222	1.50
All nativities	30-39 40-49	594 830	59.4	1,527	3.80	1,281	2.16	972	81.9	3,376	3.47	3,002	3.28
	50-59	1,142	82.1	5,094	4.46	3,792	3.32	1,053	88.9	4,997	4.75	3,407	3.24
	69-09	1,626	86.8	8,435	5.19	5,880	3.62	1,482	91.7	7,693	5.19	5,140	3.47
	20-79	2,013	88.3	11,259	5.59	7,459	3.71	1,729	92.8	9,901	5.73	6,094	3.52
_	+08	1,264	90.0	7,792	01.0	4,799	3.80	1,158	6.19	7,013	90.9	3,942	5.40
	All ages	4,349	70.5	18,166	4.18	12,754	2.93	4,932	79.3	19,905	4.04	13,544	2.75
	15-19	1	0.2	0	0.00	0	0.00	53	13.1	40	0.75	33	0.62
	20-29	213	25.7	279	1.31	230	1.08	299	59.5	1,073	1.79	876	1.46
	30-39	353	59.5	120	2.18	665	1.88	652	81.9	1,962	3.01	1,567	2.40
Native {	40-49	471	0.92	1,461	3.10	1,178	2,50	629	85.5	2,128	3.68	1,696	2.93
	50-29	615	83.4	2,351	3.82	1,790	2.91	989	89.1	2,551	4.01	1,797	2.83
	69-09	885	87.9	3,760	4.26	2,664	3.02	808	2.16	3,480	4.31	2,394	2.96
	70-79	1,106	90.7	5,504	4.98	3,727	3.37	936	92.8	4,822	5.15	3,012	3.22
	+08	208	93.3	4,041	5.71	2,500	3.53	699	91.9	3,849	5.75	2,169	3.24
	All ages	3.300	77.4	18,999	5.76	12,950	3.92	3.157	87.0	18.118	5.74	11,654	3.69
	15-19	23	3.4		0.50	-	0.50	6	13.0	7	0.78	9	0.67
	20-29	74	23.7	115	1.55	06	1.22	202	65.3	404	1.95	331	1.60
	30-39	232	61.2	742	3.20	602	2.59	307	82.1	1,367	4.45	1,041	3.39
Foreign-born	40-49	355	74.3	1,683	4.74	1,300	3.66	328	91.4	1,814	5.53	1,294	3.95
•	50-59	510	82.1	2,705	5.30	1,969	3.86	408	88.9	2,408	5.90	1,583	3.88
	69-09	726	87.6	4,611	6.35	3,173	4.37	199	92.3	4,154	6.28	2,712	4.10
	67-07	6/8	2.78	9,594	0.69	3,621	4.14	771	93.2	4,958	6.43	3,004	3.90
J	F 00	070	0.80	0,040	0.7.0	2,134	4.17	400	91.9	3,006	6.45	1,683	3.61
	All ages	114	43.7	492	4.32	315	2.76	46	69.3	454	4.68	296	3.05
	15-19	_		c	7	c	i i	,		•	,		
	20-23	# 0	1	o ñ	0.6	o <u>F</u>	0.75	07 ;	1	91	1.60	15	1.50
Unknown na-	40-49	D 4			9.00	14 4	1.50	13	1	47	3.62	40	3.01
tivity	50-50	- 1		0 00	20.00	33	0.1	- 0	1	15	2.14	77	1.71
	69-09	3 2		90	47.7	99	1.94			88	4.22	27	3.00
	62-02	8	1	191	20.20	111	2 7 7	9 6		90	4.04	40 1	2.02
	208	30	ı	503	6 77	301	 	3 6	!	121	0.00	0,0	6.00
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3.05	1.50 3.01 1.71	3.00	3.55	2.70	1.46	2.26	2.69	2.62	3.12	2.29	2.29	0.33	1.00	2.08	4.70	2.44	5.89	3.00	6	0.33	1.69	2.59	2.97	3.34	3.94	4.50	9 70	09.0	1.58	2.71	3.35	3.63	3.42	3.26		2.89	1.38	2.38	3.10	2.80	2.69	3.30	3.09
296	15 40 12	27	78	7,894	435	752	822	1,078	1,916	1,276	309	- 9	42	48 92	3 5	39	56	30	503	000	81	119	83	76	2.17	72	1 687	9	219	439	416	196	188	148 75	9.061	3,061	66	500	313	359	209	851	716
4.68	1.60 3.62 2.14	4.22	5.50	4.00	1.78	2.82	3.40	3.65	4.00 5.04	5.74	3.27	0.33	1.19	2.10	7.02 E	3.81	5.22	09.9	3 70	0.67	2.04	3.17	3.83	3.63	6.39	6.83	3.75	0.90	1.96	3.40	4.23	5.26	4.58	5.65	4 43	1.00	1.71	3.00	3.70	4.24	4.24	5.12	5.69
454	16 47 15	38	121	17 687	529	940	1,039	1,502	3.094	2,226	442	- 5	50	70	2 62	61	47	99	218	2	86	146	115	143	115	106	2.266	6	273	550	524	284	202	130	4 698	4,093	123	264	374	543	746	1,322	1,321
69.3	111	[82.7	62.1	85.4	85.5	89.2	92.1	93.0	6.69				!	1	1		69.7		ı	1		1	.	1	64.0		1	1				1 1	8. 5.3	9.	1	ı	ı	1		1	1
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2.76	0.75 1.56 1.50	2.39	3.47	2.91		1.87		2.85			2.59	{ -	9.95	1.89	300	2.89	4.80	2.80	2.48		0.67	2.18	2.86	2.90	4.17	2.38	2.73	0.00	1.28	18.1	318	3.61	4.13	4.21	3.16	; ; -	1.14	1.86	2.71	3.05	3.11	3.29	3.02
315	14	33	111	7,548	101	325	663	1,094	2,321	1,424	256	1	41 2	34 5		55	72	28	345	1	12	41	63	58	96	38	1,253	0	82.	188	966	206	165	122	3,352		25	85	187	372	627	1,07.5	999
4.32	0.75 1.67 2.00	3.56	5.03	4.13	1.21	2.12	3.03	3.61	4.85	5.69	3.56	;	1.43 9.50	2.39	3.07	4.21	6.40	4.70	3.47	1	0.78	2.13	3.91	4.20	5.65	4.25	3.63	0.00	1.51	3.39	25.5	4.96	6.05	99.9	4.69	1	1.55	2.25	3.25	4.35	4.49	5.00	9.10
492	15	88 49 5	161 203	10,690	119	369	820	1,387	3,407	2,321	352] 8	8 8	43	46	08	96	47	480	1	41 4	49	· 98	84	130	89	1,665	0 0	7A 28	325	297	283	242	193	4,979	1	34	99	224	1 046	1,040	1,025	77.T
43.7			1 1	76.4	28.0	63.7	78.1	86.7	90.4	95.3	55.9	1	1 1	.		.]		1	49.1	1	I _	 -	ı	ı	I	: -	49.6	1	1-1	1	1	1	1	1	76.1	-	1	1	11			1 1	
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All ages 15-19 20-29	20-29 30-39 40-49 50-50	50-59 60-69	70–79 80+	All ages 15-19	20-29	30-39	40-49	50-59 60-69	60-00	+08	All ages	61-G1	30-39	40-49	50-59	69-09	20-79	+08	All ages	15-19	30-30	40-49	50-29	69-09	70-79	+08	All ages	91-07	30-39	40-49	50-59	69-09	62-02	+08	All ages	15-19	20-29 30-30	40-00	40-49 50-59	69-09	70-79	67-07 +08	;

Foreign parents \(\)

Foreign father, <

Native father, forcign mother

Unknown nativity Native, native parents Parents, one or both unknown

- 130 5.65 75 3.26	85.3 4,698 4.43 3,061 2.89	123 1.71	264 3.00 209	374 3.70 313	543 4.24 359	746 4.24 509	1,322 5.12 851	1,321 5.69 716			5.43 2,907	0.67	1.57 123	3.69 348	5.48 503	0.10	7 17 527	- 529 8.27 291 4.63	- 2,409 5.39 1,536 3.44		2.12 27	4.23 66	4.33	4.62 161	5.51 387	- 507 6.04 285 3.64	6.09			4.20 30	4.43 36	5.97	6.73			6.09 3,678	1.00 4	2.12 74	6.40	898	6.66 000	6.27	- 813 5.98 433 3.18			6 1.00 6	84 4.94 64	118 5.62 89	949 6 97	- 286 6.81 160 4.03	BOT 10:0
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4.21	3.16	1.14	1.86	2.71	3.02	9.11	5.29 3.69	3.02		3 00	70:5	90	2.01	3.20	3.61	4.51	4.85	5.47	3.78	5	9.33	3.41	3 5	80.4	3.95	3.99	4.15		2.00	20.0	3.66	4.23	4.28	4.39	1	70.4	0.00	3.02	4.07	4.31	4.50	4.00	3.93	4.05		1.67	3 00	5.10	4.58	3.92	3.45
122	3,352	25	85	187	2795	1 073	288	000		9.840	1	21	155	362	488	838	635	350	2,180	o	40	133	267	437	766	519	1,684	•	4 6	30	194	393	561	461	7 267	#.07,# O	9	172	456	724	1,027	1,229	640	693	1	33	~ × 5	107	506	188	1 92
99.9	4.69									5.57		1.52	2.52	4.04	4.67	6.51	7.47	8.53	5.47	1 99	2.62	4.18	4.78	5.63	5.85	6.32	6.21	0	00.4	4.90	5.30	5.95	6.54	6.95	8.05	0.00	0.70	3.84	5.73	6.07	6.50	6.17	6.50	6.61	5	3.25	4.80	7.14	8.31	09.9	6.82
193	4,979	34	66	7224 735	1 046	1,639	1,412	1, 112	_ _	4.049	1	32	194	456	631	1,211	626	546	3,150	Ξ	55	163	363	602	1,135	821	2,522		4 4	49	281	553	857	730	6 395	0,020,0	~ ~	219	642	1,020	1,482	1,895	1,060	1,131	ų	39	96	150	374	317	150
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59	1,062	22	44	123	233	326	245	?		727	1	č	7.	113	135	186	131	64	576	6	21	39	92	107	194	130	406	6	12	10	53	93	131	CO1	1.046		10	22	112	168	228	307	109	171	or:	12	20	21	45	 	77
+08	All ages 15–19	20-29	30-39 40-40	50-59	69-09	62-02	+08	-		All ages	15-19	20-29	30-39	40-49	50-59	69-09	62-02	+08	All ages	20-29	30-39	40-49	50-59	69-09	62-02	+08	All ages	20-29	30–39	40-49	50-59	69-09	67-07	+00	All ages	15-19	20-29	30–39	40-49	69-09	69-09	67-07	L S	All ages	15-19 20-29	30-39	40-49	50–59	69-09	70-79	
Parents, one or												-		Canada 🚽				٠			England, Scot-	land, Wales								Ireland								Germany	(Austria)				,				Holland	-			<i>,</i>

3.76	3.83	}	1.00	3.76	4.23	08.4	5.95	3.36	3	3.67		1.94	3.94	4.75	3.67	3.60	3.42	3.78	27.0	#7:7 0:00	1 14	4.00	12 22 23 24 24	3.75	4.00	001	2.00		I	ı	1	4.00	4.83	4.67	3.00	3.83	9.03	3.28	i	1.75	4.50	3.22	3.00	3,33	3.25	1.23	
1,019	671		9	64	80 6	7 7	061	121	1	550		31	131	95	88	72	65	89	190	671	9	52	3 2	3 45	9 00) -	4 44	-										302						9			-
6.27	6.01		1.00	4.94	20.07	20.0	5 5	5.86		5.01		2.38	4.58	5.80	5.46	5.05	5.74	5.53	4 30	0.50	1.71	5.15	5.89	8.00	8.00	100	4.00		1	}	1	2.00	6.50	0.00	7.33	0.55 7.63	99	5.71		1.88	67.7	87.8	5.50	5.89	6.17	8.08	-
1,699	1,053		9 7	1 0	106	949	286	211		752		38	151	116	131	101	109	106	203	1	24	29	53	32	16	-	œ		I							61		525						1,46			-
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4.00 3.93	4.05	101	2.75	3.90	5.10	4.58	3.92	3.45	90	60.0	1.00	1.07	2.03	2.92	3.36	30.00	2.81	27.5	3.27		2.00	3 35	5.08	2.75	2.80	4.00	1				0 11	9.17	0.00	2.36	3.75	5.13		3.49	0.57	- 98.6	300	2.58	3 03	4.33	250	3	
1,229 640	693	ı	. cc	282	107	206	188	92	747	tot ,	- u	0.0	9 6	9 :	111		6¢	44	196		98	63	99	11	14	12	1	l	1	1	10	67	98	20.00	15	41		422						156			
6.50 6.50	6.61	1 67	3.25	4.80	7.14	8.31	09.9	6.82	4 41	1 5	200	97.6	9 5	7.00	47.1	0.13	0.43	2.00	4.05		2.39	27.7	5.69	3.25	4.80	8.67	1		-	1	3.50	6.75		7.18	6.75	00.6	10 C	e0.e	0.71	3.29	3.21	3.50	6.04	6.78	4.94	!	
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+08	All ages 15–19	20-29	30-39	40-49	50-59	69-09	67-07	+00	All ages	15-19	20-29	30-39	40-49	50-59	69-09	62-02	+08	-	All ages	20-19 20-90	67 07	40-49	50-50	60-06	60 00	2.08	F-	All ages	15-19	20-29	30-39	40-49	50-59	69-09	70–79	+08	All ages	15–19	20-29	30–39	40-49	20-29	69-09	62-02	+08		
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			:	Holland								Norway,	Sweden,	Denmark								Russia	(Finland)									Poland									Other foreign						

total number of deaths compiled for the purpose of the following table was 20,675, about two-thirds of the total number of deaths of all classes and ages in the State during the year, and 96.96 per cent. of the total number of deaths at all known ages over fifteen years, which was 21,324. This shows that the returns under this head are sufficiently exhaustive to be fairly representative.

Of the 10,691 male decedents, 2,16i, or 20.2 per cent., were reported as single. 767, or 7.2 per cent., were either married, widowed, or divorced, but with number of children not stated, leaving 7,763, or 72.6 per cent., the number of whose children born and living was given.

Of the 9,984 female decedents, 1,216, or 12.2 per cent., were single. 582, or 5.8 per cent., were not single, but number of children was not reported, while 8,186, or 82.0 per cent., is the number of those reported as having had children.

The latter category is of the most importance, and is used as the subject of the following table, which also gives the number of decedents of each sex and children born and living for each ten-year ageperiod, together with the average number of children to each decedent. The percentages given, which appear only for the totals except for the largest groups, show how fully the figures used in this table represent the total volume of returns of the given class, and are affected by age-distribution of population.

I regret that circumstances preclude a full analysis of the data contained in this table. Ten years ago I showed, or endeavored to show, on the basis of the imperfect returns of births then available, that the native population of Michigan was not sustaining itself, the average number of children per native mother being only 3.0, the same as in France, while the mothers of foreign birth had 5.1 children for the last period studied, 1890-94. This was a mere general average, and the use of the age-periods enables us to watch the passing generations in this respect, and see, to some extent, how the fertility of marriage has changed for the same nationality. It is most suggestive, for example, to know that 615 native males who died in Michigan in 1900, aged from fifty to fifty-nine years, had had an average of 3.82 children, of whom 2.91 survived, while 510 foreign-born males dying in the same year at the same period of age had had an average of 5.30 children each, of whom 3.86 children survived. We have some light here on the claim frequently made that, while Americans have fewer children born, they rear a larger proportion of them to manhood and womanhood.

The first part of the question in the blank, that relating to the age at marriage, has not even been touched upon. If time permitted,

some very interesting comparisons could be made with the Australian data of similar character for the same year in the Statistician's Report on the Vital Statistics of New South Wales, by Dr. Coghlan, from whose reports I believe that the addition of this question to the items required in the Michigan law was suggested to me. Perhaps the facts here shown may warrant a continuation of effort in the compilation of this class of data, and perhaps make the registration reports of greater sociological interest aside from their sanitary importance.

CRESSY L. WILBUR.

Lansing, Mich., Dec. 27, 1905.